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COMPLETE SPECIFICATION.

Improvements in Artificial Teeth.

I, FRANCESCO CASSULLO, of Via Della Piazza, No. 12, Verezzi, in the Province of Genoa, Italy, Dentist, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

5 This invention relates to the making of improved artificial teeth, its object being to make them more solid, and their application much easier.

The invention consists in providing the artificial tooth with grooves, in which are set corresponding projections of a metallic plate, which covers partially or wholly the back side of the tooth; this metallic plate is also soldered or other-
10 wise fixed, by means of small pivots, plates, hooks or the like, upon the sets of "fixed bridge" or "movable bridge" systems, or upon sets of teeth mounted on metal or on caoutchouc or other plastic materials, or also upon pivots introduced into the natural roots.

In the annexed drawings are shown as an example some forms and applications
15 of this invention.

Fig. 1 is a view of the back side of a tooth.

Fig. 2 is a side view of the same tooth.

Fig. 3 is a section on the line $x-x$ of Fig. 1.

Fig. 4 shows the side view of a metallic plate.

20 Fig. 5 shows the section of the same plate on the line $y-y$ of Fig. 4.

Fig. 6 shows on a larger scale the section of a tooth joined to the metallic plate.

Fig. 7 is the side view of the tooth joined to the metallic plate.

Figs. 8 and 9 show other forms of grooves and plates.

25 Fig. 10 shows the frame of a tooth with pivot, to be introduced into the natural roots, while the tooth is being set.

Fig. 11 is the application of the present invention to a molar tooth.

Fig. 12 shows a metallic plate made like a hook specially adapted for sets of teeth mounted in caoutchouc.

30 Fig. 13 shows a curved metallic plate with small movable pivots applicable to any tooth.

Fig. 14 shows the molar tooth to which may be applied the metallic plate shown in Fig. 13.

In the tooth A, of porcelain or other suitable material, are made in its back or
35 inner side one, two, or more grooves B, into which the projections C of metallic plates D may penetrate. Grooves B and corresponding projections C may be of any form, provided they correspond to the object of this invention; thus they may be dovetailed (Figs. 3 and 6), circular (Fig. 8), angular (Fig. 9), or of any other coupling form. Projections C upon plates D may be joined or soldered
40 (Figs. 5 and 6), or made by folding the edges (Fig. 9), or formed in any other suitable way. Plates D are provided with small pivots E, blades F, movable pins G, hooks H or other known means serving for fixing, soldering or otherwise applying them up bridges or other systems of sets of teeth.

[Price 8d.]

Cassullo's Improvements in Artificial Teeth.

After tooth A has been set on plate B, it is further joined by means of a suitable cement or glue, thus making plate and tooth a single body.

The advantages of artificial teeth made according to this invention are of great importance with regard to solidity, facility of application and replacing of the teeth for any system of metallic or plastic sets of teeth.

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Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:—

1. An artificial tooth having one or more grooves in the back, in which are inserted corresponding projections of a metallic plate, which covers partially or wholly the back of the tooth, and is capable of being soldered or otherwise attached to the bridges, or plate of a set of teeth substantially as described.

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2. The improved construction of artificial teeth substantially as described and illustrated.

Dated the 3rd day of November 1899.

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Fig: 1.

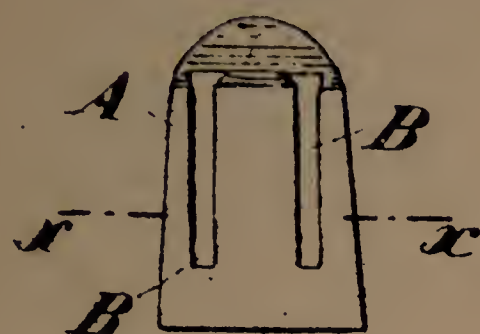


Fig: 2.



Fig: 3.

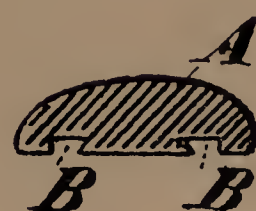


Fig: 4.

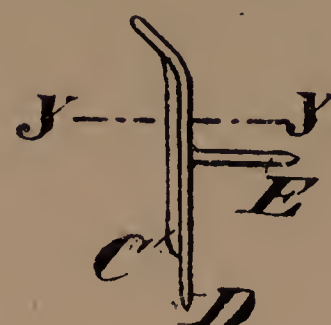


Fig: 5.

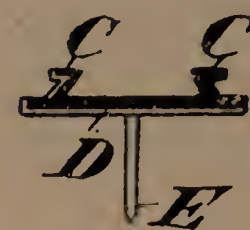


Fig: 6.

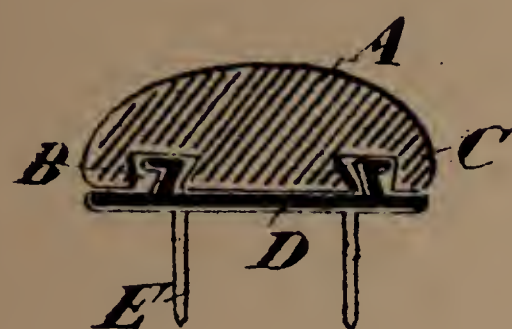


Fig: 7.

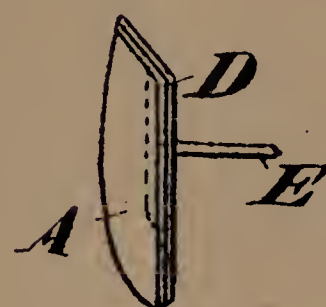


Fig: 8.



Fig: 9.

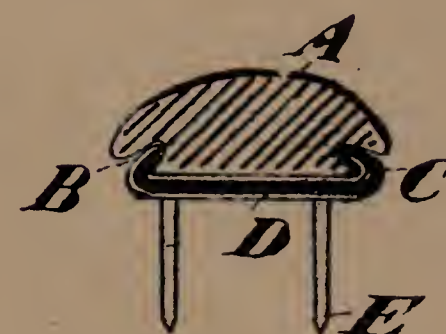


Fig: 10.



Fig: 11.



Fig: 12.

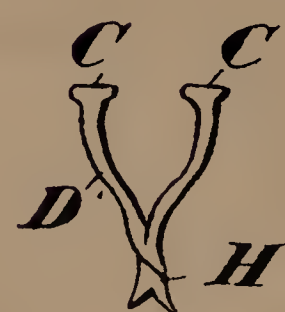


Fig: 13.



Fig: 14.



[This Drawing is a reproduction of the Original on a reduced scale.]

